U. S. FOREST PRODUCTS LABORATORY
Madison, Wisconsin

LIST OF PUBLICATIONS JANUARY 1 TO JUNE 30, 1932

Publications available for distribution at the Laboratory are marked with an asterisk (*). Those not so marked are available as noted after the title.

Trade journals and magazines referred to, if not available in your local library, may be obtained from the list of publishers given on the last two pages.

CHEMISTRY OF WOOD

A new method for determining the proportion of the length of a tracheid that is in contact with rays, by A. J. Stamm (in Botanical Gazette, Sept., 1931).

Absorption spectra of lignin solutions, by A. J. Stamm, J. Semb, and E. E. Harris (in Journal of Physical Chemistry, May, 1932).

*Chemical analyses of wood, Forest Products Laboratory Technical Note 235, Aug., 1931).

Effect of chemical treatment upon the permeability of wood, by A. J. Stamm (in Industrial & Engineering Chemistry, Jan., 1932).

Electrical conductivity method for determining the effective capillary dimensions of wood, by A. J. Stamm (in Journal of Physical Chemistry, Jan., 1932).

*Factors affecting quantitative determination of lignin by 72 per cent sulfuric acid methods, by G.J.Ritter, R.M.Seborg, and R.M.Mitchell (in Industrial & Engineering Chemistry, Analytical Edition, Apr.15,1932).

*Factors that influence the properties of isolated wood lignin, by E. C. Sherrard and E. E. Harris (in Industrial & Engineering Chemistry, Jan., 1932). Same. (in Paper Makers' Monthly Journal, Feb. 15, 1932).

GLUE, PLYWOOD, AND COATINGS

Maybe paint is only a superfluity, after all, by F. L. Browne (in Paint, Oil & Chemical Review, Feb. 25, 1932).

*Methods of increasing durability of plywood, by Don Brouse (in Wood Working Industries, Feb., 1932). Same. (in Furniture Manufacturer, June, 1932).

*Technologically useful properties of casein, by F. L. Browne (in Colloid Chemistry, Theoretical and Applied, June, 1932),

When and how to paint farm buildings, by F. L. Browne (in Farm and Village Housing, 1932, Report No. 7 of the President's Conference on Home Building and Home Ownership).

MECHANICAL PROPERTIES OF WOOD

*Nail-holding power of American woods, Forest Products Laboratory Technical Note 236, Aug., 1931).

Practical hints on frame house construction, by G. W. Trayer (in Farm and Village Housing, 1932, Report No. 7 of the President's Conference on Home Building and Home Ownership).

*Strength-moisture relations for wood, by T. R. C. Wilson (U. S. Department of Agriculture Tech. Bul. 282, Mar., 1932).

Strength of laminated columns, by J. A. Scholten (in Timberman, Feb., 1932).

*Weights of various woods grown in the United States (revision), Forest Products Laboratory Technical Note 218, Aug., 1931).

PULP AND PAPER

*Comparative pulping value of Russian and Canadian spruce by the sulphite process, by W. H. Monsson and G. H. Chidester (in TAPPI papers, June, 1932). Same. (in Paper Trade Journal, Feb. 11, 1932).

*Effect of relatively high sulphur dioxide concentration in sulphite pulping, by G. H. Chidester and J. N. McGovern (in TAPPI papers, June, 1932). Same. (in Paper Trade Journal, Feb. 4, 1932).

*Pulp and paper research of the Forest Products Laboratory, by T. J. Mosley,
Pt.1: Study of raw materials for making paper (in United States Daily, June 22, 1932)
Pt.2: Developing processes in paper making (in United States Daily, June 23, 1932)
Pt.3: Study of wood grinding to make paper pulp (in United States Daily, June 24, 1932)
Pt.4: Experiments in making many types of paper (in United States Daily, June 25, 1932)
Pt.5: Availability of timbers for paper-making (in United States Daily, June 27, 1932).

*Pulps and papers from southern woods: needs and possibilities of diversification, by C. P. Winslow (in Manufacturers' Record, Mar. 24, 1932).

Pulpwood evaluation, by C. E. Curran (in Pulpwood, Mar., 1932).

Use requirements of paper for the printing industry, by P. K. Baird (in Proceedings of the Third Conference of the Technical Experts in the Printing Industry, Mar. 14-15, 1932).

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Same. (in Paper Trade Journal, Mar. 3, 1932).

*Research in the use requirements of papers, by P. K. Baird (in TAPPI papers, June, 1932).

*Volumetric composition of paper, Pt. 4: composition of the air fraction, improved apparatus and method for determining porosity, by R. H. Doughty, C. O. Seborg, and P. K. Baird (in TAPPI papers, June, 1932). Same. (in Paper Trade Journal, June 16,1932).

SEASONING OF WOOD

*Air seasoning at small mills, by J. S. Mathewson, Mimeograph R899-8, June 21, 1932).

*Excessive dry-kiln temperatures cost heavily in degrade, by W. K. Loughborough, W. L. Greenhill, and Ian Langlands (in Southern Lumber Journal, Apr., 1932).
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*Instrument for measuring wood equilibrium moisture content, Forest Products Laboratory Technical Note 239, Mar., 1932).

*Is your woodwork safe from moisture changes? by T. J. Mosley (in Small Home, Jan., 1932).

Moisture control of wood in service and in storage, by E. C. Peck (in Wood Products, May, 1932).
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*Seasoning dimension stock, by O. W. Torgeson (in Wood Working Industries, June, 1932).

*Moisture pick-up in dry lumber, by W. K. Loughborough (in Southern Lumber Journal, Apr., 1932).
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*Sensitive wood element hygrostat, by W. K. Loughborough and R. C. Rietz (in Instruments, June, 1932).

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*The care of wood clubs, by E. C. Peck (in American Golfer, Feb., 1932).

Why good millwork sometimes gives trouble after installation, by L. V. Teesdale (in Wood Working Industries, Apr., 1932).

SHIPPING CONTAINERS

Designing containers for maximum service, by C. A. Plaskett (in Practical Packing and Shipping (Job Order Production Series 4), 1932).

*Metal straps on boxes, Forest Products Laboratory Technical Note 237, Aug., 1931).

WOOD PRESERVATION

*An international termite exposure test -- third progress report, by G. M. Hunt and T. E. Snyder (in American Wood-Preservers' Assn. Proceedings, 1932).

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*Experiments in fireproofing wood, by G. M. Hunt, T. R. Truax, and C. A. Harrison (in American Wood-Preservers' Assn. Proceedings, 1932).

*Further experiments with chemicals suggested as possible wood preservatives, by Ira Hatfield (in American Wood-Preservers' Assn. Proceedings, 1932).

*Studies of heat conduction in wood, Pt. 2: results of steaming green sawed southern pine timbers, by J. D. MacLean (in American Wood-Preservers' Assn. Proceedings, 1932).

*Why and how of mine timber records, by R. M. Wirka (in Mining Congress Journal, Feb., 1932).

WOOD STRUCTURE

*More turpentine, less scar, better pine, by Eloise Gerry (U. S. Department of Agriculture Leaflet 83, 1931).

*Oleoresin production from longleaf pine defoliated by fire, by Eloise Gerry (in Journal of Agricultural Research, Nov. 1, 1931).

Relation of forest conditions to quality and value of loblolly pine timber, by B. H. Paul (Virginia Forestry Publication 43, Oct., 1931).
Same. (in Journal of Forestry, Jan., 1932).

Some properties of slash pine, by B. H. Paul (in Pulp & Paper Magazine of Canada, Jan. 7, 1932).
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Some Georgia woods in relation to oleoresin and pulp production, by Eloise Gerry (in Cypress Knee, 1932).

Storax or sweet gum gatherers suffer from overproduction, by Eloise Gerry (in Louisiana Conservation Review, Apr., 1932).

WOOD UTILIZATION, LOGGING, AND MILLING

Avoidable defects and sales appeal, by E. M. Davis (in Southern Lumberman, Mar. 15, 1932).

Data on hockey stick manufacture, by C. V. Sweet (in Wood Working Industries, June, 1932).

*Hardwood grade stick, by A. C. Wollin, Mimeograph F899-7, Apr., 1932.

*Properties of western larch and their relation to uses of the wood, by R. P. A. Johnson and M. I. Bradner (U. S. Department of Agriculture Tech. Bul. 285, Mar., 1932).

*Red gum, the versatile hardwood, by G. C. Morbeck (in Memphis Lumberman & Southern Woodworker, Jan., 1932).

*Utilization of wood formerly wasted, by T. J. Mosley (in Manufacturers' Record, Mar. 3, 1932).

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*A duff hygrometer for measuring forest fire hazards, Forest Products Laboratory Technical Note 238, Aug., 1931).

*Artificial aging of wood for paneling, unnumbered mimeograph, Apr. 6, 1932

*Forest Products Laboratory, by F. J. Champion, Mimeograph R940, Apr. 15, 1932).

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Growing timber for commercial use, by C. P. Winslow (in United States Daily, May 23, 1932).

*Inexpensive paneled rooms of chestnut, by C. V. Sweet (in Good Housekeeping, Apr., 1932).

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Am.Wood-Pres.Assn.,1104 Chandler Bldg.,Washington, D.C.
Barrel & Box & Packages, 542 S. Dearborn St., Chicago.
Botanical Gazette, 5750 Ellis Ave., Chicago.
Colloid Chemistry, Theoretical & Applied, Chemical Catalog Co., 419 Fourth Ave., New York City.
Cypress Knee, Ga. College of Ag., Athens, Ga.
Farm & Village Housing, New Com. Bldg., Washington,D.C.
Forest Worker, U.S. Forest Service, Washington, D.C.
Furniture Manufacturer, Grand Rapids, Mich.
Good Housekeeping, 57th at 8th Ave., New York City.
Industrial & Engineering Chemistry, 706 Mills Bldg., Washington, D. C.
Instruments, 3619 Forbes St., Pittsburgh, Pa.
Jour.of Ag. Research, Washington, D. C.
Jour.of Forestry, 705 Lennox Bldg., Washington, D. C.
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Louisiana Conservation Review, Dept. of Conservation, New Orleans, La.
Manufacturers' Record, Water & Commerce Sts., Baltimore, Md.

Memphis Lumberman & Southern Woodworker, Bank of Commerce Bldg., Memphis, Tenn.
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Small Home, 1200 2nd Ave., S., Minneapolis, Minn.
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Southern Lumberman, Presbyterian Bldg., Nashville, Tenn.
TAPPI (Technical Association of the Pulp & Paper Industry, 370 Lexington Ave., New York City.
Technical Experts in the Printing Industry, 3rd Conference, American Society of Mechanical Engineers, Printing Industries Div., 29 W. 39th St., New York City.
Timberman, 329 Oak St., Portland, Ore.
United States Daily, 2201 M St., NW., Washington, D.C.
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LIST OF PUBLICATIONS JULY 1 to DECEMBER 31, 1932

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CHEMISTRY OF WOOD

*Differentiation of the hemicelluloses, by L. F. Hawley and A. G. Norman (in Industrial & Engineering Chemistry, Oct., 1932).

*Distribution of ether extractive in turpentined slash pine trees, by E. F. Kurth and E. C. Sherrard (in Industrial & Engineering Chemistry, Oct., 1932). Mimeograph.

Factors in rosin coloration, by J. A. Hall (in Industrial & Engineering Chemistry, Nov., 1932).

Potential reducing numbers of lignin and of carbohydrates of wood, by G. J. Ritter, R. L. Mitchell, and R. M. Seborg (in Industrial & Engineering Chemistry, Nov., 1932).

*Synthetic lignin, by L. F. Hawley and E. E. Harris (in Industrial & Engineering Chemistry, Aug., 1932). Mimeograph.

GLUE, PLYWOOD, AND COATINGS

Farm buildings should be repainted before wood weathering begins, by F. L. Browne (in U. S. Dept. of Ag. Yearbook, 1932).

*When and how to paint farm buildings, by F. L. Browne (in final report of committees, President's Conference on Home Building and Home Ownership). Mimeograph R962.

MECHANICAL PROPERTIES OF WOOD

*Bearing strength of wood under bolts, by G. W. Trayer (U. S. Dept. of Ag. Technical Bul. 332, Oct., 1932).

*How surface condition of nails affects their holding power in wood, by L. J. Markwardt and J. M. Gahagan (in Barrel & Box & Packages, Sept., 1932).

*New nail treating process increases holding power, by J. M. Gahagan and E. Beglinger (in Barrel & Box & Packages, July, 1932).
Same. (in Timberman, July, 1932).
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*Strength and related properties of redwood, by R. F. Luxford and L. J. Markwardt (U. S. Dept. of Ag. Technical Bul. 305, July, 1932).

*Wood bending, by T. R. C. Wilson (in Industrial Woodworking, Dec., 1932). Mimeograph R966.

PULP AND PAPER

*Characterization of pulps and stuffs: A suggested system based on use requirements, by P. K. Baird (in Paper Trade Journal, Dec. 15, 1932).

*Effect of white water on sheet properties, by E. R. Schafer (in Paper Trade Journal, July 14, 1932).

*Relation of sheet properties and fiber properties in paper, Pt. 4: The use of structural concepts in pulp evaluation and paper design (in Paper Trade Journal, Sept. 8, 1932).

*The volumetric composition of paper, Pt. 5: Air fraction composition, by C. O. Seborg, R. H. Doughty, and P. K. Baird (in Paper Trade Journal, Sept. 29, 1932).

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*Casehardening and the extraction of water from green wood, by H. D. Tiemann (in Southern Lumberman, Aug. 1, 1932).
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*Moisture content of wood in dwellings, by E. C. Peck (U. S. Dept. of Ag. Circ. 239, Oct., 1932).

*Seasoning of dimension stock, by O. W. Torgeson (in Furniture Index, Oct., 1932).

SHIPPING CONTAINERS

*Design factors affecting the strength and rigidity of wooden crates, by G. E. Heck (U. S. Dept. of Ag. Circ. 236, Nov., 1932).

Trends in the shipping container industry, by C. A. Plaskett (in Fibre Containers, Aug., 1932).
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Make treated lumber available, by G. M. Hunt (in Southern Lumberman, Oct. 1, 1932).

*Moisture content, specific gravity, and air space in wood, by J. D. MacLean (in Transactions of the American Society of Mechanical Engineers, Wood Industries Division, Nov. 15, 1932).

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*Identification of longleaf pine timber, by Arthur Koehler (in Southern Lumberman, Dec. 15, 1932).

Improving the quality of second-growth Douglas fir, by B. H. Paul (in Journal of Forestry, Oct., 1932).

Quality versus size as an index of a profitable tree: loblolly pine, by B. H. Paul (in Journal of Forestry, Nov., 1932).

Spiral grain tends to cause warping in sand pine lumber, by B. H. Paul (in Forest Worker, Sept., 1932).

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*Better bundling of dimension stock, by A. O. Benson (in Southern Lumberman, Dec. 15, 1932).

*Chestnut as a core wood, by G. C. Morbeck (in Industrial Woodworking, Sept., 1932).

Logs from the woodlot may be sold profitably on a log-grade basis, by Raymond Miller (in U. S. Dept. of Ag. Yearbook, 1932).

*The portable band sawmill and selective logging in the loblolly pine forests of North Carolina, by R. D. Garver and J. B. Cuno (U. S. Dept. of Ag. Technical Bul. 337, Dec., 1932).

*Wooden snow fencing for highways, by G. C. Morbeck (in American Lumberman, Dec. 10, 1932).

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*Faith in research, by Arthur Koehler (in Mechanical Engineering, Nov., 1932).

*Forest lands and forest industries, by C. P. Winslow (address given before the Central States Forestry Congress, Nov. 17, 1932). Mimeograph R963.

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Iron Age, 239 W. 39th St., New York City.
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